

Curriculum



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| Nome Name: | Mauro |
| Cognome Surname: | DACASTO |

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| ORCID: | 0000-0002-3637-5643 |
| Scopus Author ID: | n.d. |
| WOS Author ID: | n.d. |
| Sito WEB WEB site: | n.d. |

POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

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| Posizione attuale Current position: | In servizio |
| Qualifica Qualification: | Professore Ordinario (L. 240/10) |
| Ateneo/Ente/Azienda University/Institution/Company: | Università degli Studi di PADOVA |
| Nazione Ateneo/Ente/Azienda University/Institution/Company Country: | ITA |
| Anno inizio Start Year: | 2014 |
| Anno fine End Year: | n.d. |

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

LINGUE / LANGUAGES:

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| Lingua Language: | Inglese |
| Scrittura Writing: | C1 |
| Comunicazione Communication: | C1 |

AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

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| Area scientifico-disciplinare Area scientific-disciplinary: | Scienze agrarie e veterinarie |
| Area scientifico-disciplinare codice Area scientific-disciplinary code: | 07 |
| Settore scientifico-disciplinare codice Sector scientific-disciplinary code: | -Farmacologia e tossicologia veterinaria |
| Settore scientifico-disciplinare codice Sector scientific-disciplinary code: | -MVET-04/A |

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

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| Descrizione Description: | <p><i>In the last ten years, AURORA lab strengthened the collaborations with national (e.g., Universities of Turin, Bologna) and international (e.g. Universities of Wroclaw, Kuopio, and Tandil) academic institutions. We also improved our biomolecular (e.g., cell transient transfection, CRISPR-Cas9) and -omic skills (RNA-seq). Within our research topic (RT) "Comparative studies on expression and regulation of drug metabolizing enzymes and transporters", we investigated the effects of food contaminants, such as aflatoxin B1 (AFB1) on bovine cytochromes P450 1A1, 1B1 and 3A74, which play a fundamental role in the AFB1 bioactivation to harmful derivatives. As to the RT "Xenobiotic molecular and cellular toxicity (Mechanistic Toxicology), we run several studies in which a preliminary cytotoxicity screening with different assays (e.g., Alamar blue, WST-1, neutral red and sulforhodamine) was executed. Such an approach was usually followed by RNA-seq investigations and related confirmatory assays (e.g., flow cytometry, immunoblotting, ELISA, enzyme activity). In this RT falls also the establishment of genetically modified cell lines to understand the toxicokinetics (i.e., metabolism) and the toxicodynamics (e.g., activation of specific pathways) of AFB1, and the protective role of natural antioxidants (i.e., curcumin, quercetin). With the RT "Toxicogenomics" we assessed the effects of xenobiotics on the individual's transcriptome, in order to identify</i></p> |
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| | <p><i>biomarkers. In the past, such an approach was undertaken to detect growth promoters misuse in meat cattle. Today, we address our interest with respect to the interaction between phytochemicals (e.g., thymol, resveratrol) and food contaminants (AFB1), pathogens (protozoa) and emerging pollutants (PFAS). In the past ten years, the RT "Nutrigenomics" has gained increasing importance in AURORA lab. Our approach aims at better understanding the effects of food and feed additives, nutraceuticals, and diet constituents on the transcriptome of food-producing species (poultry, sheep, cattle, dairy cow). In most of cases, the matrix of choice is whole blood or small intestine biopsy samples. Likewise, after the recruitment of a permanent staff member the RT "Ecotoxicology" has become topic of interest in AURORA lab. At present, we are working on sentinel and model species (e.g., algae, Daphnia magna), using OECD/OCSE approved acute/chronic tests (including multigenerational studies), with PFAS as target molecules. Last, but not least, the RT "Veterinary oncology and anti-cancer chemotherapy". In the last twenty years, we extensively studied canine tumours, and particularly mast cell tumour (MCT). We have used several approaches, including transcriptomics (cDNA microarray, and RNA-seq), patient geno- and phenotyping (KIT gene pharmacogenetics), in vitro/ex vivo studies on new therapeutic targets and their molecular characterization (DNA G-quadruplexes, tyrosine kinase inhibitors, PARP inhibitors (i.e., olaparib).</i></p> |
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PUBBLICAZIONI / PUBLICATIONS:

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| Anno della pubblicazione Year of publication: | 2024 |
| Citazione Citation: | Iori, S, Lahtela-Kakkonen, M, D'Onofrio, C, Maietti, F, Mucignat, G, Bardhi, A, Barbarossa, A, Zaghini, A, Pauletto, M, Dacasto, M, Giantin, M (2024). New insights into aflatoxin B1 mechanistic toxicology in cattle liver: an integrated approach using molecular docking and biological evaluation in CYP1A1 and CYP3A74 knockout BFH12 cell lines. ARCHIVES OF TOXICOLOGY, ISSN: 0340-5761, doi: 10.1007/s00204-024-03799-y |

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| Anno della pubblicazione Year of publication: | 2024 |
| Citazione Citation: | Iori, Silvia, D'Onofrio, Caterina, Laham-Karam, Nihay, Mushimiyimana, Isidore, Lucatello, Lorena, Montanucci, Ludovica, Lopparelli, Rosa Maria, Bonsembiante, Federico, Capolongo, Francesca, Pauletto, Marianna, Dacasto, Mauro, Giantin, Mery (2024). Generation and characterization of cytochrome P450 3A74 CRISPR/Cas9 knockout bovine foetal hepatocyte cell line (BFH12). BIOCHEMICAL PHARMACOLOGY, vol. 224, ISSN: 0006-2952, doi: 10.1016/j.bcp.2024.116231 |

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| Anno della pubblicazione Year of publication: | 2024 |
| Citazione Citation: | Iori S., D'Onofrio C., Laham-Karam N., Mushimiyimana I., Lucatello L., Lopparelli R. M., Gelain M. E., Capolongo F., Pauletto M., Dacasto M., Giantin M. (2024). Establishment and characterization of cytochrome P450 1A1 CRISPR/Cas9 Knockout Bovine Foetal Hepatocyte Cell Line (BFH12). CELL BIOLOGY AND TOXICOLOGY, vol. 40, p. 18-32, ISSN: 1573-6822, doi: 10.1007/s10565-024-09856-7 |

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| Anno della pubblicazione Year of publication: | 2016 |
| Citazione Citation: | ZORZAN, ELEONORA, DA ROS, SILVIA, MUSETTI, CATERINA, ZORRO SHAHIDIAN, L., RAMOS COELHO, N. F., BONSEMBIANTE, FEDERICO, Létard, S., GELAIN, MARIA ELENA, PALUMBO, MANLIO, Dubreuil, P., GIANTIN, MERY, SISSI, CLAUDIA, DACASTO, MAURO (2016). Screening of candidate G-quadruplex ligands for the human c-KIT promotorial region and their effects in multiple in-vitro models. ONCOTARGET, vol. 7, p. 21658-21675, ISSN: 1949-2553, doi: 10.18632/oncotarget.7808 |

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| Anno della pubblicazione Year of publication: | 2018 |
| Citazione Citation: | Pizzoni, S., Sabattini, S., Stefanello, D., Dentini, A., Ferrari, R., Dacasto, M., Giantin, M., Laganga, P., Amati, M., Tortorella, G., Marconato, L. (2018). Features and prognostic impact of distant metastases in 45 dogs with de novo stage IV cutaneous mast cell tumours: A prospective study. VETERINARY AND COMPARATIVE ONCOLOGY, vol. 16, p. 28-36, ISSN: 1476-5810, doi: 10.1111/vco.12306 |

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| Anno della pubblicazione Year of publication: | 2015 |
| Citazione Citation: | L. Marconato, R. Finotello, U. Bonfanti, DACASTO, MAURO, L. Beatrice, S. Pizzoni, V. F. Leone, G. Balestra, T. Furlanello, C. Rohrer Bley, ARESU, LUCA (2015). An Open-label Phase 1 Dose-escalation Clinical Trial of a Single Intravenous Administration of Gemcitabine in Dogs with Advanced Solid Tumors. JOURNAL OF VETERINARY INTERNAL MEDICINE, vol. 29, p. 620-625, ISSN: 0891-6640, doi: 10.1111/jvim.12557 |

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| Anno della pubblicazione Year of publication: | 2022 |
| Citazione Citation: | Zorzán E., Elgendy R., Guerra G., Da Ros S., Gelain M. E., Bonsembiante F., Garaffo G., Vitale N., Piva R., Marconato L., Aresu L., Dacasto M., Giantin M. (2022). Hypermethylation-Mediated Silencing of CIDEA, MAL and PCDH17 Tumour Suppressor Genes in Canine DLBCL: From Multi-Omics Analyses to Mechanistic Studies. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 23, 4021, ISSN: 1661-6596, doi: 10.3390/ijms23074021 |

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| Anno della pubblicazione Year of publication: | 2022 |
| Citazione Citation: | Cantiello M., Carletti M., Giantin M., Gardini G., Capolongo F., Cascio P., Pauletto M., Girolami F., Dacasto M., Nebbia C. (2022). Induction by Phenobarbital of Phase I and II Xenobiotic-Metabolizing Enzymes in Bovine Liver: An Overall Catalytic and Immunochemical Characterization. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 23, 3564, ISSN: 1661-6596, doi: 10.3390/ijms23073564 |

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| Anno della pubblicazione Year of publication: | 2022 |
| Citazione Citation: | Iori, Silvia, Pauletto, Marianna, Bassan, Irene, Bonsembiante, Federico, Gelain, Maria Elena, Bardhi, Anisa, Barbarossa, Andrea, Zaghini, Anna, Dacasto, Mauro, Giantin, Mery (2022). Deepening the Whole Transcriptomics of Bovine Liver Cells Exposed to AFB1: A Spotlight on Toll-like Receptor 2. TOXINS, vol. 14, ISSN: 2072-6651, doi: 10.3390/toxins14070504 |

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| Anno della pubblicazione Year of publication: | 2023 |
| Citazione Citation: | Pietropoli, Edoardo, Pauletto, Marianna, Tolosi, Roberta, Iori, Silvia, Lopparelli, Rosa Maria, Montanucci, Ludovica, Giantin, Mery, Dacasto, Mauro, De Liguoro, Marco (2023). An In Vivo Whole-Transcriptomic Approach to Assess Developmental and Reproductive Impairments Caused by Flumequine in Daphnia magna. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, ISSN: 1422-0067, doi: 10.3390/ijms24119396 |

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

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| Descrizione Description: | |
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

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| Descrizione Description: | |
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

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| Descrizione Description: | |
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO

**ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) /
DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10
YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH
ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE
CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION
ACTIVITIES):**

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| Descrizione Description: | |
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Informazioni aggiornate alla data di candidatura 09-09-2025

Mauro DACASTO

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto